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# Ahmed Hussien Mohamed Hussien

Ma'adi, Cairo, EGYPT

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**Military status:** Exempted

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## PROFESSIONAL SUMMARY

Ahmed is just a junior Mechatronics engineer who starts training and self-learning at early studying year, what makes him Acquire skills like communication, team work last but not least technical skills. He has the passion and Diligence to be special to achieve some awards before graduation and he managed to get:

- Green Belt in Lean Manufacturing skills.

This gives him the advantage to quickly adapt with his mates and fulfill his work perfectly and efficiently.

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## WORK HISTORY

### **Formula Student Engine Tuning Member (Automotive team)**

Embedded Systems engineer | Zagazig city, Egypt | August 2015 – Present

ZUFS (Zagazig University Formula Student) is a team of champions who have the power, intensity and ability to design and manufacture a formula car. They managed to participate in many international Formula students competitions like London and Russia.

Completed projects included:

Studying formula engine and control of its functions to make an ECU in order to control these functions. Automotive team managed to choose a specific microcontroller to be the brain of our ECU and managed to make a basic function through this microcontroller which is injection and crank speed and position.

### **Modern for rubber Weaves (Tatweer, Sonaa Al-Haya)**

Lean manufacturing engineer | 10<sup>th</sup> Ramadan city, Egypt | August 2015 – April 2016

Modern for rubber weaves (مودرن للشرائط النسيجية) is a factory which specialized in rubber weaves, it's one of the big suppliers to Cotonil, Emprator and other big factories.

Completed projects included:

Analysis and problem solving of the factory processes and production lines trying to improve any process and apply the lean concepts. A complete edit at sorting and packing partition of the factory in order to decrease the time of these processes, make the work area more comfortable to the workers and let them able to achieve the daily production in one shift.

### **Rockal Insulators (Tatweer, Sonaa Al-Haya)**

Lean manufacturing engineer | Oubour City, Egypt | February 2015 – May 2015

Tatweer is a project of sonaa Al-Hayat to help on improvement of the production and industry in Egypt based on a well prepared volunteering engineers. Such a project made a success in a few years and spread out in many industrial areas like Oubour City, 10<sup>th</sup> of Ramadan, 6<sup>th</sup> October City, Alexandria, Al mahala al koubra, As Sadat city and Cairo industrial cities.

Rockal Insulators (الصخري للعوازل) is a factory which specialized in heat and sound insulators, it is one of the biggest factories in Egypt in this field and a big supplier for Kiriazi, Universal, Fresh and other factories besides other companies

Completed projects included:

Analysis and problem solving of the factory processes and production lines trying to improve any process and apply the lean concepts.

## The Arab Contractors

Mechanical Engineer Trainee | Mansoura City, Egypt | July 2013 - August 2013

The work and responsibilities as a Trainee Engineer included working to assist the maintenance engineer in fixing and managing vehicles and heavy machines like Clarks, Trucks, Excavators, Dozers and Cranes.

Completed projects include:

Sandoub maintenance workstation: Worked on concepts of engine, hydraulic machines and motion systems.

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## SKILLS

- Mechanical Design
- SolidWorks
- Lean Manufacturing (Green Belt)
- AutoCad
- Programming
- Electrical Classic Control
- Electronics
- Microsoft Office
- Communication
- Team work
- Presentation
- Search and Analysis
- Self-Learning
- Innovation
- Leadership

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## EDUCATION

**Bachelor of Engineering** Mechanical Engineering (Mechanical Design and Production Department)  
Zagazig University

Zagazig, Egypt | 2016

**Graduation Project:** Design and analysis of Hydraulic Press (Awarded: **Excellent**).

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## Key Academic Project

**Final Year Project: Design and analysis of Hydraulic Press (Awarded: Excellent).**

**Project included:**

- Mechanical design of Hydraulic press.
- Manufacturing of Hydraulic press.
- Design of Hydraulic circuit.
- Control of Hydraulic press by designing of electrical circuit.
- Control of Pressing stroke length.

**This was carried out through:**

- The creation of a client brief that includes: the design, hydraulic, electrical components and design CAD drawings.
- Investigative design: An investigation on the modern methods of design, requiring a literature review, methodology, results and discussion.

**Experience:**

- Mechanical Design and analysis.

- Manufacturing and basics of supply chain.
  - Supplying drafting staff with information to assist in the production of detailed cad designs.
  - Design of Hydraulic circuits and choose its components.
  - Design of electrical circuit, simulation and manufacturing it completely.
  - Development of initial designs, using mathematics to calculate the stress that could arise at each point in the structure, and simulating and modeling possible situations, such as critical stress at critical points in the design.
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## Community Activities

- **Volunteer with sonaa Al-Haya at Kafr Saqr branch**

Society general volunteering work like water connections, Roofs and clothes partitions ... etc.

- **Volunteer with sonaa Al-Haya (Tatweer Project)**

Tatweer is a project of sonaa Al-Hayat to help on improvement of the production and industry in Egypt based on a well prepared volunteering engineers. Such a project made a success in a few years and spread out in many industrial areas like Oubour City, 10<sup>th</sup> of Ramadan, 6<sup>th</sup> October City, Alexandria, Al mahala al koubra, As Sadat city and Cairo industrial cities.

Our responsibility was volunteering in factories to make an improvement in its production rate and quality by applying lean concepts and making groups of factories' engineers and workers to guarantee that the improvement continue.